

UV REFLECTING MATERIALS FOR LED LAMPS USING
UV-EMITTING DIODES

ABSTRACT

5 A light source comprising a light emitting component comprised of a semiconductor material, at least one phosphor material, at least one UV reflecting material, and optionally, at least one silicone layer and at least one encapsulant, is provided. This light source provides safety to the user against UV exposure and protection to other components within the device that may degrade upon exposure to UV
10 radiation. Furthermore, the UV reflecting material reflects unconverted UV light back into the phosphor layer where it is converted to visible light, resulting in increased output from the light source.

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